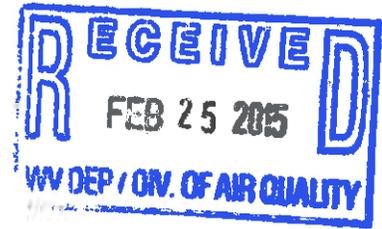




February 20, 2015

BY: U.S. CERTIFIED MAIL, RETURN RECEIPT REQUESTED
7014 3490 0000 0448 3627



William F. Durham
Director, Division of Air Quality
WVDEP
601 57th Street
Charleston, WV 25304

RE: **Dominion Transmission, Inc.**
GP Compressor Station – Steve Hall
Permit Determination Request

Dear Mr. Durham:

Dominion Transmission, Inc. (Dominion) is submitting this request for permit determination for the addition of a natural gas compressor engine at the GP Compressor Station – Steve Hall location, an existing natural gas compression station located near Weston, Lewis County, West Virginia.

Based on the response from DEP dated December 16, 2013 (enclosed) for a similar unit, Dominion believes a permit is not necessary for the installation and operation of a GM - Model # 4.3L 6cyc engine at GP Compressor Station – Steve Hall. Information on the unit is included below:

Engine Manufacturer and Model: GM - Model # 4.3L 6cyc, installed 8/2007
Manufacturer's Rated bhp: 190 bhp
Subject to NSPS Subpart JJJJ? No, before applicability date
Subject to NESHAP Subpart ZZZZ? Yes, new source
Fuel Type: Pipeline Quality Natural Gas

Potential Emissions (Based on 8,760 hours)

Pollutant	Source	lbs/hr	tons/yr
NO _x	AP-42	1.10	4.81
CO	AP-42	1.80	7.88
VOC	AP-42	0.17	0.76
SO ₂	AP-42	2.84E-04	1.25E-03
PM (filterable)	AP-42	4.59E-03	2.01E-02
PM10 (filterable)	AP-42	4.59E-03	2.01E-02
PM2.5 (filterable)	AP-42	4.59E-03	2.01E-02
PM (condensibles)	AP-42	4.79E-03	2.10E-02
Formaldehyde	AP-42	9.91E-03	4.34E-02
Total HAP	AP-42	0.05	0.22

The compressor engine is not deemed to be a stationary source since there are no substantive requirements and the potential emission are below permitting thresholds. Although, 40 CFR Part 63 Subpart ZZZZ does apply, there are no requirements (e.g. no performance tests) for this engine as the requirements for Subpart ZZZZ are to meet NSPS Subpart JJJJ requirements (which it is not subject to). Since the engine was installed in August 2007 at a previous location, to be conservative, we plan on following the requirements in Subpart ZZZZ for existing sources. Therefore, Dominion will meet the requirements of Subpart ZZZZ by complying with the following requirements:

- Change oil and filter every 1,440 hours of operation or annually, whichever comes first.
- Inspect spark plugs every 1,440 hours of operation or annually, whichever comes first.
- Inspect all hoses and belts every 1,440 hours of operation or annually, whichever comes first, and replace as necessary
- Following the manufacturer's emissions-related written instructions or our developed maintenance plan
- Keeping records of malfunction and the maintenance conducted on the unit

If you require any additional information, please contact Rebekah Remick at 804-273-3536 or via email at Rebekah.J.Remick@dom.com.

Sincerely,



Amanda B. Tornabene
Director, Gas Environmental Services

Enclosures

Appendix A: Permit Determination for GP Compressor Station – Steve Hall

Appendix B: Previous Review for Similar Unit

Appendix A

Permit Determination for GP Compressor Station – Steve Hall



WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF AIR QUALITY
601 57th Street, SE
Charleston, WV 25304
Phone: (304) 926-0475
www.dep.wv.gov/daq

**PERMIT DETERMINATION FORM
(PDF)**

FOR AGENCY USE ONLY: PLANT I.D. # _____
PDF # _____ PERMIT WRITER _____

1. NAME OF APPLICANT (AS REGISTERED WITH THE WV SECRETARY OF STATE'S OFFICE): Dominion Transmissions, Inc.		
2. NAME OF FACILITY (IF DIFFERENT FROM ABOVE): GP Compressor Station – Steve Hall		3. NORTH AMERICAN INDUSTRY CLASSIFICATION SYSTEM (NAICS) CODE: 211111
4A. MAILING ADDRESS: 445 West Main Street, Clarksburg, WV 26301		4B. PHYSICAL ADDRESS: Off Cort 10 – Valley Chapel Rd. at well location 5350
5A. DIRECTIONS TO FACILITY (PLEASE PROVIDE MAP AS ATTACHMENT A): See Attachment A		
5B. NEAREST ROAD: Cort 10	5C. NEAREST CITY OR TOWN: Weston, WV	5D. COUNTY: Lewis County
5E. UTM NORTHING (KM): 4327836	5F. UTM EASTING (KM): 542973.8	5G. UTM ZONE: 17
6A. INDIVIDUAL TO CONTACT IF MORE INFORMATION IS REQUIRED: Rebekah (Becky) Remick		6B. TITLE: Environmental Specialist III
6C. TELEPHONE: 804-273-3536	6D. FAX: 804-273-2964	6E. E-MAIL: Rebekah.J.Remick@dom.com
7A. DAQ PLANT I.D. NO. (FOR AN EXISTING FACILITY ONLY): _____	7B. PLEASE LIST ALL CURRENT 45CSR13, 45CSR14, 45CSR19 AND/OR TITLE V (45CSR30) PERMIT NUMBERS ASSOCIATED WITH THIS PROCESS (FOR AN EXISTING FACILITY ONLY): N/A	
7C. IS THIS PDF BEING SUBMITTED AS THE RESULT OF AN ENFORCEMENT ACTION? IF YES, PLEASE LIST: No		
8A. TYPE OF EMISSION SOURCE (CHECK ONE): <input checked="" type="checkbox"/> NEW SOURCE <input type="checkbox"/> ADMINISTRATIVE UPDATE <input type="checkbox"/> MODIFICATION <input type="checkbox"/> OTHER (PLEASE EXPLAIN IN 11B)		8B. IF ADMINISTRATIVE UPDATE, DOES DAQ HAVE THE APPLICANT'S CONSENT TO UPDATE THE EXISTING PERMIT WITH THE INFORMATION CONTAINED HEREIN? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
9. IS DEMOLITION OR PHYSICAL RENOVATION AT AN EXISTING FACILITY INVOLVED? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		
10A. DATE OF ANTICIPATED INSTALLATION OR CHANGE: <u>5/1/2014</u>		10B. DATE OF ANTICIPATED START-UP: <u>5/1/2014</u>
11A. PLEASE PROVIDE A DETAILED PROCESS FLOW DIAGRAM SHOWING EACH PROPOSED OR MODIFIED PROCESS EMISSION POINT AS ATTACHMENT B.		
11B. PLEASE PROVIDE A DETAILED PROCESS DESCRIPTION AS ATTACHMENT C.		
12. PLEASE PROVIDE MATERIAL SAFETY DATA SHEETS (MSDS) FOR ALL MATERIALS PROCESSED, USED OR PRODUCED AS ATTACHMENT D. FOR CHEMICAL PROCESSES, PLEASE PROVIDE A MSDS FOR EACH COMPOUND EMITTED TO AIR.		

13A. REGULATED AIR POLLUTANT EMISSIONS:

⇒ FOR A NEW FACILITY, PLEASE PROVIDE PLANT WIDE EMISSIONS BASED ON THE POTENTIAL TO EMIT (PTE) FOR THE FOLLOWING AIR POLLUTANTS INCLUDING ALL PROCESSES.

⇒ FOR AN EXISTING FACILITY, PLEASE PROVIDE THE PROPOSED CHANGE IN EMISSIONS BASED ON THE PTE OF ALL PROCESS CHANGES FOR THE FOLLOWING AIR POLLUTANTS.

PTE FOR A GIVEN POLLUTANT IS TYPICALLY BEFORE AIR POLLUTION CONTROL DEVICES AND IS COLLECTED BASED ON THE MAXIMUM DESIGN CAPACITY OF PROCESS EQUIPMENT.

POLLUTANT	HOURLY PTE (LB/HR)	YEARLY PTE (TON/YR) (HOURLY PTE MULTIPLIED BY 8760 HR/YR) DIVIDED BY 2000 LB/TON
PM	4.59E-03	2.01E-02
PM ₁₀	4.59E-03	2.01E-02
VOCs	0.17	0.76
CO	1.80	7.88
NO _x	1.10	4.81
SO ₂	2.84E-04	1.25E-03
Pb		
HAPs (AGGREGATE AMOUNT)	0.05	0.22
TAPs (INDIVIDUALLY)*		
OTHER (INDIVIDUALLY)*		

* ATTACH ADDITIONAL PAGES AS NEEDED

13B. PLEASE PROVIDE ALL SUPPORTING CALCULATIONS AS ATTACHMENT E.

CALCULATE AN HOURLY AND YEARLY PTE OF EACH PROCESS EMISSION POINT (SHOWN IN YOUR DETAILED PROCESS FLOW DIAGRAM) FOR ALL AIR POLLUTANTS LISTED ABOVE INCLUDING INDIVIDUAL HAP'S (LISTED IN SECTION 112[b] OF THE 1990 CAAA), TAP'S (LISTED IN 45CSR27), AND OTHER AIR POLLUTANTS (E.G. POLLUTANTS LISTED IN TABLE 45-13A OF 45CSR13, MINERAL ACIDS PER 45CSR7, ETC.).

14. CERTIFICATION OF DATA

I, BRIAN SHEPPARD (TYPE NAME) ATTEST THAT ALL THE REPRESENTATIONS CONTAINED IN THIS APPLICATION, OR APPENDED HERETO, ARE TRUE, ACCURATE, AND COMPLETE TO THE BEST OF MY KNOWLEDGE BASED ON INFORMATION AND BELIEF AFTER REASONABLE INQUIRY, AND THAT I AM A **RESPONSIBLE OFFICIAL**** (PRESIDENT, VICE PRESIDENT, SECRETARY OR TREASURER, GENERAL PARTNER OR SOLE PROPRIETOR) OF THE APPLICANT.

SIGNATURE OF RESPONSIBLE OFFICIAL: _____

TITLE: VICE PRESIDENT, PIPELINE OPERATIONS

DATE: 02 / 17 / 2015

** THE DEFINITION OF THE PHRASE 'RESPONSIBLE OFFICIAL' CAN BE FOUND AT 45CSR13, SECTION 2.23.

NOTE: PLEASE CHECK ENCLOSED ATTACHMENTS:

ATTACHMENT A ATTACHMENT B ATTACHMENT C ATTACHMENT D ATTACHMENT E

RECORDS ON ALL CHANGES ARE REQUIRED TO BE KEPT AND MAINTAINED ON-SITE FOR TWO (2) YEARS.

THE PERMIT DETERMINATION FORM WITH THE INSTRUCTIONS CAN BE FOUND ON DAQ'S PERMITTING SECTION WEB SITE

www.dep.wv.gov/daq

Attachment A

Facility Location and Directions



Google earth

feet 4000
km 1



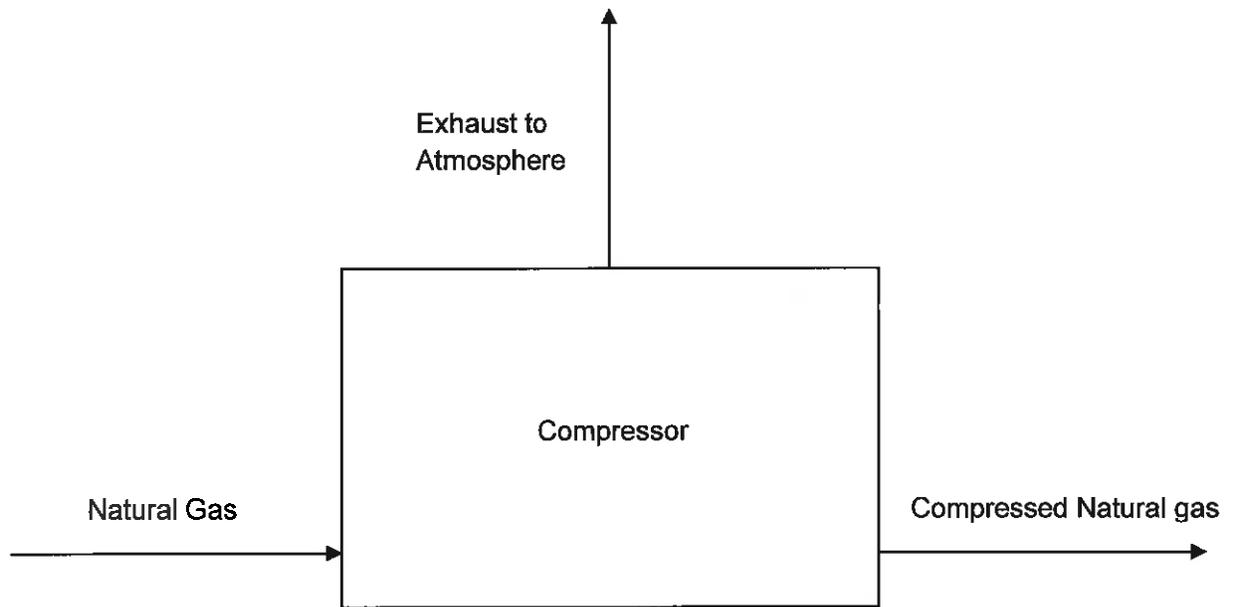
Directions:

I-79 to Jane Lew, Exit 105. Turn right off exit ramp; go 0.7 miles to Jct Rt. #19 in Jane Lew. Left of Rt. #19 South; go 4.8 miles. Turn right on Jackson's Mill Rd (Co. Rte 12). Go 3.0 miles (Exxon on the left, Jackson's Mill Fire Dept. on the right). Turn left; go 0.1 miles. Turn right onto Chapel Rd. (10); go 2.4 miles. Turn left through gate and across creek; go 0.1 miles through open gate. Follow well road uphill 0.3 miles to "Y"; bear right. Go additional 0.1 miles; bear left onto location.

Attachment B

Process Flow Diagram

Process Flow Diagram for the Compressor Engine – Steve Hall



Attachment C

Process Description

Process Description

GP Compressor Station – Steve Hall is a single well compressor. The purpose of the facility is to compress natural gas produced from the well. The compressor engine at the facility receives natural gas and compresses it to enable further transportation into the pipeline.

Attachment E

Supporting Calculations

Non-Emergency Generator Potential Emissions
Dominion Transmission, Inc.
GP Compressor Station - Steve Hall

Input Data: GM - Model # 4.3L 6cyc
 Design Class: 4-stroke rich burn
 Engine Power: 190 bhp
 Rated Electrical Output: 141.7 kW
 Fuel Input: 0.48 MMBtu/hr
 Maximum Hours of Operation: 8,760 hrs/yr
 Heating Value of Natural Gas: 1,000 Btu/cf

Emission Calculations

Pollutant	Emission Factor		Potential Emissions	
			(lb/hr)	(tons/yr)
Criteria Pollutants				
PM (filterable)	9.50E-03	lb/MMBtu	4.59E-03	2.01E-02
PM-10 (filterable)	9.50E-03	lb/MMBtu	4.59E-03	2.01E-02
PM-2.5 (filterable)	9.50E-03	lb/MMBtu	4.59E-03	2.01E-02
PM (condensibles)	9.91E-03	lb/MMBtu	4.79E-03	2.10E-02
SO2	5.88E-04	lb/MMBtu	2.84E-04	1.25E-03
CO	3.72	lb/MMBtu	1.80	7.88
NO _x	2.27	lb/MMBtu	1.10	4.81
VOC	0.358	lb/MMBtu	0.17	0.76
Greenhouse Gases				
CO ₂	117.0	lb/MMBtu	56.57	247.80
CH ₄	2.20E-03	lb/MMBtu	0.00	0.00
N ₂ O	2.20E-04	lb/MMBtu	0.00	0.00
CO ₂ e	117.1	lb/MMBtu	56.63	248.05
Hazardous Air Pollutants				
1,1,2,2-Tetrachloroethane	2.53E-05	lb/MMBtu	1.22E-05	5.36E-05
1,1,2-Trichloroethane	1.53E-05	lb/MMBtu	7.40E-06	3.24E-05
1,1-Dichloroethane	1.13E-05	lb/MMBtu	5.47E-06	2.39E-05
1,2-Dichloroethane	1.13E-05	lb/MMBtu	5.47E-06	2.39E-05
1,2-Dichloropropane	1.30E-05	lb/MMBtu	6.29E-06	2.75E-05
1,3-Butadiene	6.63E-04	lb/MMBtu	3.21E-04	1.40E-03
1,3-Dichloropropene	1.27E-05	lb/MMBtu	6.14E-06	2.69E-05
Acrolein	2.63E-03	lb/MMBtu	1.27E-03	5.57E-03
Acetaldehyde	2.79E-03	lb/MMBtu	1.35E-03	5.91E-03
Benzene	1.58E-03	lb/MMBtu	7.64E-04	3.35E-03
Butr/Isobutyraldehyde	4.86E-05	lb/MMBtu	2.35E-05	1.03E-04
Carbon Tetrachloride	1.77E-05	lb/MMBtu	8.56E-06	3.75E-05
Chlorobenzene	1.29E-05	lb/MMBtu	6.24E-06	2.73E-05
Chloroform	1.37E-05	lb/MMBtu	6.63E-06	2.90E-05
Ethane	7.04E-02	lb/MMBtu	3.40E-02	1.49E-01
Ethylbenzene	2.48E-05	lb/MMBtu	1.20E-05	5.25E-05
Ethylene Dibromide	2.13E-05	lb/MMBtu	1.03E-05	4.51E-05
Formaldehyde	2.05E-02	lb/MMBtu	9.91E-03	4.34E-02
Methanol	3.06E-03	lb/MMBtu	1.48E-03	6.48E-03
Methylene Chloride	4.12E-05	lb/MMBtu	1.99E-05	8.73E-05
Naphthalene (POM)	9.71E-05	lb/MMBtu	4.70E-05	2.06E-04
PAH	1.41E-04	lb/MMBtu	6.82E-05	2.99E-04
Styrene	1.19E-05	lb/MMBtu	5.76E-06	2.52E-05
Toluene	5.58E-04	lb/MMBtu	2.70E-04	1.18E-03
Vinyl Chloride	7.18E-06	lb/MMBtu	3.47E-06	1.52E-05
Xylene	1.95E-04	lb/MMBtu	9.43E-05	4.13E-04
TOTAL HAP:			0.050	0.218

(1) All emission factors from AP-42, Section 3.2, Natural Gas-Fired Reciprocating Engines, Table 3.2-3, 7/00

(2) Conversion of bhp to kW:

$$0.746 \text{ kW/bhp}$$

$$(190 \text{ bhp}) * (0.746 \text{ kW/bhp}) = 141.7 \text{ kW}$$

(3) Conversion of kilowatt to MMBtu/hr:

$$3412.14 \text{ BTU/kw-hr}$$

$$(141.7 \text{ kw}) * (3412.14 \text{ Btu/kw-hr}) * (1 \text{ MMBtu}/10^6 \text{ Btu}) = 0.48 \text{ MMBtu/hr}$$

(4) Lb/MMBtu numbers based on 40 CFR Part 98 Tables C-1 and C-2 for natural gas

$$\text{For example: } \text{CO}_2 = (53.06 \text{ kg CO}_2/\text{MMBtu}) / (0.453592 \text{ kg/lb}) = 117.0 \text{ lb/MMBtu}$$

(5) Global Warming Potentials = 25 for CH₄ and 298 for N₂O (per 40 CFR Part 98 Table A-1 to Subpart A)

$$\text{For example: } \text{CO}_2\text{e} = (117.0 \text{ lb/MMBtu}) + (0.0022 \text{ lb/MMBtu} * 25) + (0.00022 \text{ lb/MMBtu} * 298) = 117.1 \text{ lb/MMBtu}$$

Appendix B

Previous Review for Similar Unit



west virginia department of environmental protection

Division of Air Quality
601 57th Street SE
Charleston, WV 25304
Phone (304) 926-0475 • FAX: (304) 926-0479

Earl Ray Tomblin, Governor
Randy C. Huffman, Cabinet Secretary
www.dep.wv.gov

December 16, 2013

Jeffrey Barger
P.O. Box 2450
Clarksburg, WV 26302-2450

Re: Withdrawal of Permit Application
Dominion Transmission, Inc.
Racket Newberne M&R Facility
Cox Mills, Gilmer County, WV
Permit Application G60-C055
Plant ID No.: 021-00021

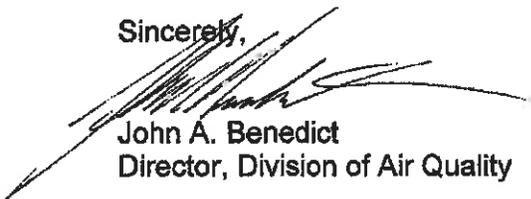
Dear Mr. Jeffrey Barger:

In accordance with your letter received on November 21, 2013, this Division hereby acknowledges the withdrawal of your company's application for a G60-C General Permit Registration for a Kohler 20 RESA, 27 bhp emergency generator/engine to be located at your Racket Newberne M&R Facility located near Cox Mills, Gilmer County, WV.

A permit registration was not needed for the generator engine because the generator was not deemed to be a stationary source and there are no substantive requirements. Although 40 CFR 60 Subpart JJJJ does apply, no performance tests are required. Dominion is aware that it must maintain maintenance records, a copy of the engine certification and fulfill any other applicable requirement(s) of Subpart JJJJ.

No further action will be taken by this Division regarding the G60-C General Permit Registration proposed in application G60-C055.

Sincerely,



John A. Benedict
Director, Division of Air Quality

JAB/jcl
cc: John Legg
Permit Writer

Meghann Quinn, Dominion Transmission, Inc.

Promoting a healthy environment.